ET420077755US

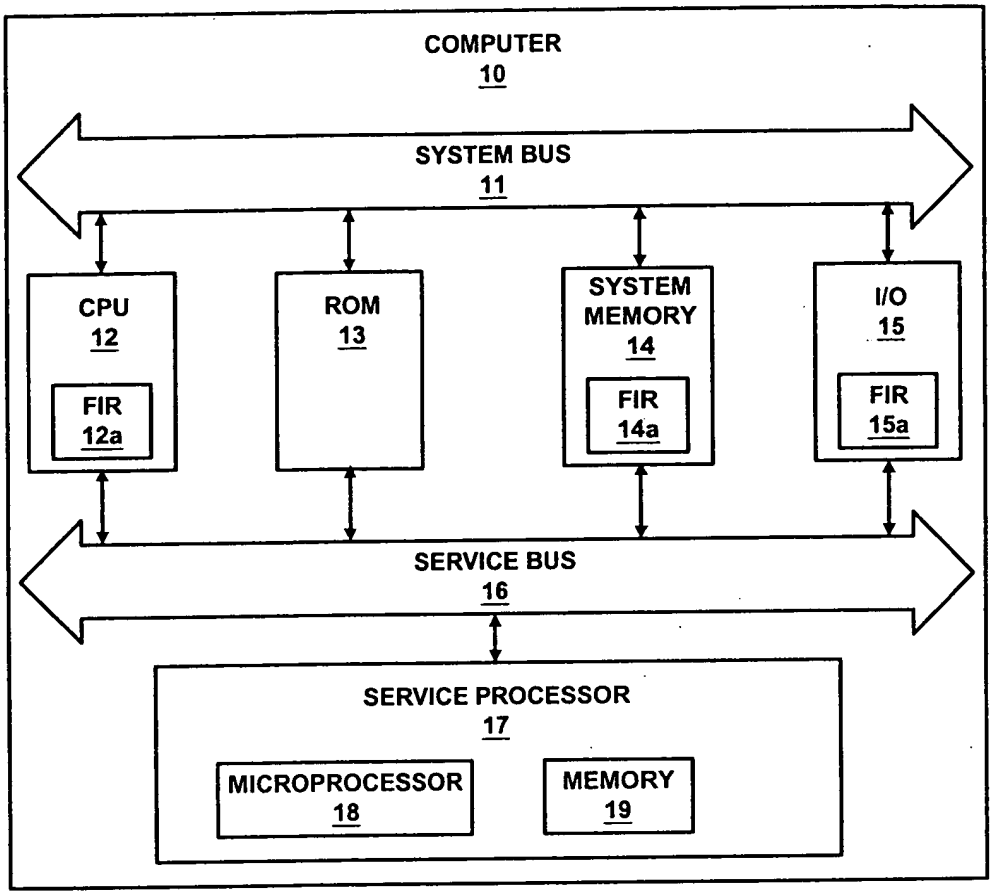

FIG. 1

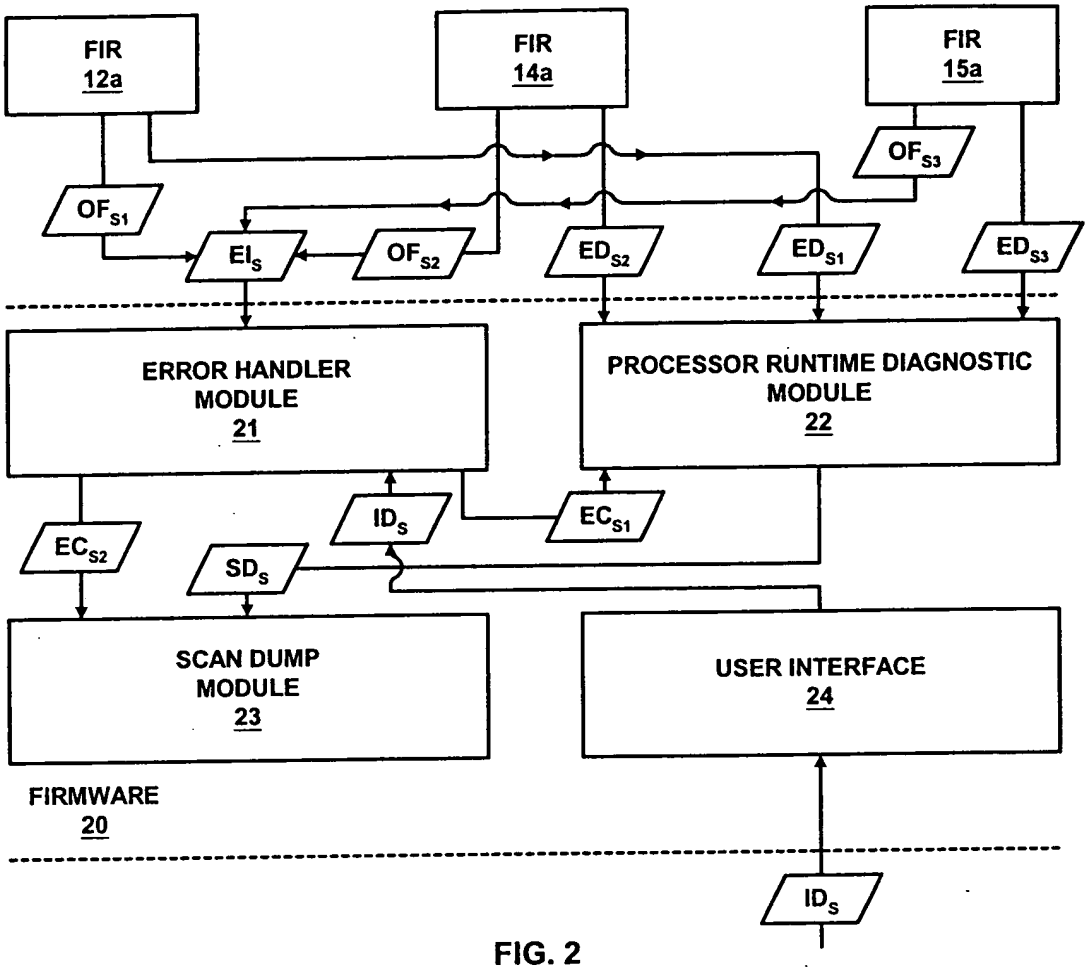
FIR
12a
FIR
14a
FIR
15a
OF_{S1}
OF_{S2}
OF_{S3}
EI_S
ED_{S2}
ED_{S1}
ED_{S3}
ERROR HANDLER
MODULE
21
PROCESSOR RUNTIME DIAGNOSTIC
MODULE
22
ID_S
EC_{S1}
EC_{S2}
SD_S
SCAN DUMP
MODULE
23
USER INTERFACE
24
FIRMWARE
20
ID_S

FIG. 2

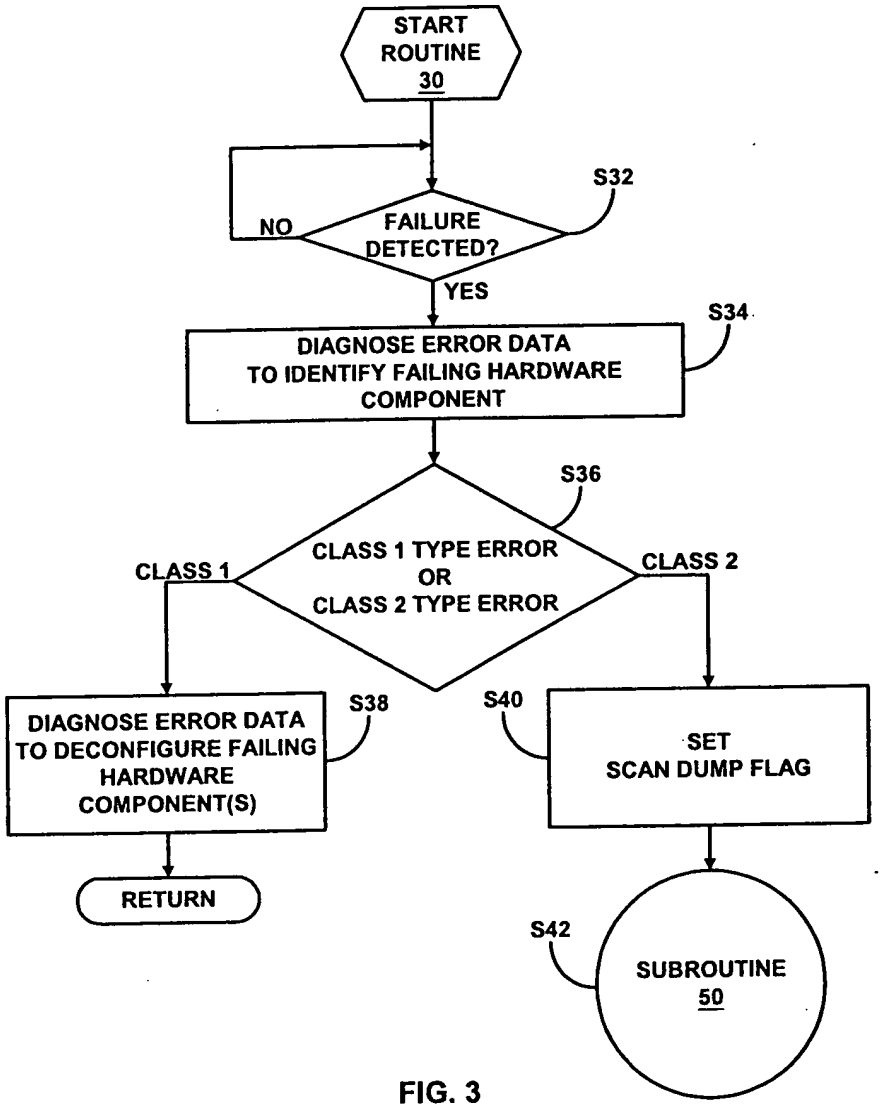
START ROUTINE 30
S32
NO
FAILURE DETECTED?
YES
S34
DIAGNOSE ERROR DATA TO IDENTIFY FAILING HARDWARE COMPONENT
S36
CLASS 1 TYPE ERROR OR CLASS 2 TYPE ERROR
CLASS 1
CLASS 2
S38
DIAGNOSE ERROR DATA TO DECONFIGURE FAILING HARDWARE COMPONENT(S)
S40
SET SCAN DUMP FLAG
RETURN
S42
SUBROUTINE 50

FIG. 3

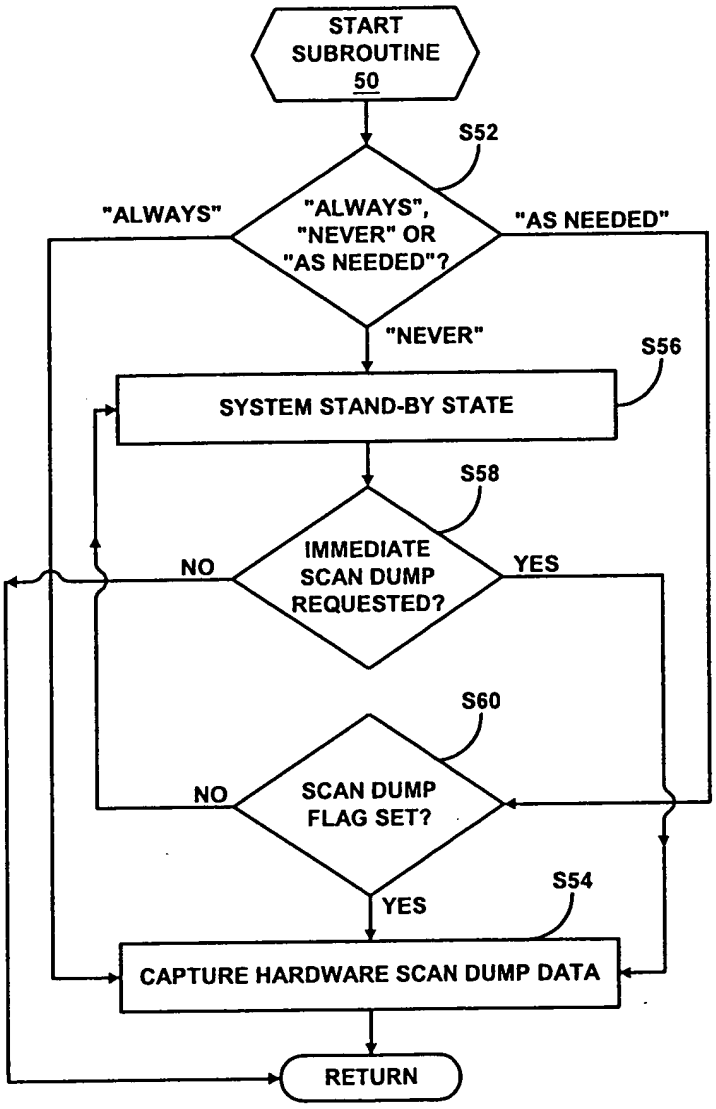
START SUBROUTINE 50
S52
"ALWAYS", "NEVER" OR "AS NEEDED"?
"ALWAYS"
"AS NEEDED"
"NEVER"
S56
SYSTEM STAND-BY STATE
S58
IMMEDIATE SCAN DUMP REQUESTED?
NO
YES
S60
SCAN DUMP FLAG SET?
NO
YES
S54
CAPTURE HARDWARE SCAN DUMP DATA
RETURN

FIG. 4

70

ERROR SUBCLASS	ERROR DESCRIPTION	BIT OF ERROR DATA SIGNAL
CLASS 2A	HARDWARE HANG/HANG RECOVERY FAILURE	20 (SET STATE)
CLASS 2B	HARDWARE DESIGN	21 (SET STATE)
CLASS 2C	SOFTWARE/FIRMWARE DESIGN	22 (SET STATE)
CLASS 2D	SOFTWARE/FIRMWARE ILLEGAL OPERATION	23 (SET STATE)
CLASS 2E	INVALID ERROR CONDITIONS	24 (SET STATE)

FIG. 5